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%include 'i:\habc_sas\programs\initv8.sas';
PROC IMPORT OUT= WORK.apoewid
            DATAFILE= "I:\HABC_SAS\ReadingData\Data to Upload\ApoEwIDs.xls"
            DBMS=EXCEL2000 REPLACE;
            GETNAMES=YES;
RUN;
PROC IMPORT OUT= WORK.APOEBD
            DATAFILE= "I:\HABC_SAS\ReadingData\Data to Upload\ApoEBDs.xls"
            DBMS=EXCEL2000 REPLACE;
            GETNAMES=YES;
RUN;

data apoe_new;
  set apoewid (rename=(apoe_T3937C_rs429358=apoe554_type
apoe_C4075T_rs7412=apoe555_type));
  format apoe_type $8.;
  if apoe554_type in ('C','HETERO','T','ND');
  if apoe554_type='C' and apoe555_type='C' then apoe_type='e4,e4';
  if apoe554_type='C' and apoe555_type='HETEROZYGOUS' then apoe_type='X';
  if apoe554_type='C' and apoe555_type='T' then apoe_type='XX';
  if apoe554_type='HETERO' and apoe555_type='C' then apoe_type='e3,e4';
  if apoe554_type='HETERO' and apoe555_type='HETEROZYGOUS' then
apoe_type='e2,e4';
  if apoe554_type='HETERO' and apoe555_type='T' then apoe_type='XXX';
  if apoe554_type='T' and apoe555_type='C' then apoe_type='e3,e3';
  if apoe554_type='T' and apoe555_type='HETEROZYGOUS' then apoe_type='e2,e3';
  if apoe554_type='T' and apoe555_type='T' then apoe_type='e2,e2';
  if apoe554_type='ND' then delete;
  if apoe555_type='ND' then delete;
run;

proc freq; table apoe_type;run;

proc print data=apoe_new;
  where apoe_type = '';
var habc_id apoe554_type apoe555_type;
run;

data apoe_bd;
  set apoebd (rename=(apoe_T3937C_rs429358=apoe554_type
apoe_C4075T_rs7412=apoe555_type));
  format apoe_type $8.;
  if apoe554_type in ('C','HETERO','T','ND');
  if apoe554_type='C' and apoe555_type='C' then apoe_type='e4,e4';
  if apoe554_type='C' and apoe555_type='HETEROZYGOUS' then apoe_type='X';

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if apoe554_type='C' and apoe555_type='T' then apoe_type='XX';
if apoe554_type='HETERO' and apoe555_type='C' then apoe_type='e3,e4';
if apoe554_type='HETERO' and apoe555_type='HETEROZYGOUS' then
apoe_type='e2,e4';
if apoe554_type='HETERO' and apoe555_type='T' then apoe_type='XXX';
if apoe554_type='T' and apoe555_type='C' then apoe_type='e3,e3';
if apoe554_type='T' and apoe555_type='HETEROZYGOUS' then apoe_type='e2,e3';
if apoe554_type='T' and apoe555_type='T' then apoe_type='e2,e2';
if apoe554_type='ND' then delete;
if apoe555_type='ND' then delete;
run;

proc sort data=apoe_bd;by idno;run;
proc sort data=apoe_new; by idno;run;
  data APOEBblindDupe;
    merge apoe_bd (in=in keep=idno apoe_type rename=(apoe_type=bdtype))
apoe_new (in=innnew keep=idno apoe_type);
    by idno; if in and innnew;
  run;

proc print data=apoebblinddupe;
  where bdtype ne apoe_type;
run;

data read1.apoe;
  set apoe_new (keep=habc_id apoe_type rename=(habc_id=habcid
apoe_type=apoetype));
run;
proc sort data=read1.apoe; by habcid; run;
data read1.apoebd;
  set apoebblinddupe (rename=(apoe_type=apoetype));
run;

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